BRUHAT BANGALORE MAHANAGARA PALIKE
YELAHANKA ZONE

Name of work: Estimate for Construction of Rainwater Harvesting (Main Tank) to Govt School Building at Doddabommasandra and Ramachandrapura, Community Building at Ramachandrapura and Yalumandamma Badavane in Ward No. 10, Vidyaranyapura Sub Division.

								Estimate Cost Rs.	1000000.00
Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRB 2-2.2 : Earth work excavation for foundation of buildings, culverts water supply, sanitary line and electrical conduits either in pits or in trenches 1.5m and above in width, **in Hard soil** not exceeding 1.5m, in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m, after breaking of clods complete as per specifications, specification, No, KBS 2.1(a) / 2.3.5, **Page No. 5 / Item No. 2.3/ PWD SR 2014-15**	Cum							
	Main Tank		1	4.00	4.00	1.50	24.00		
	Flush Lock & Bed Filter Tank		1	2.60	1.65	0.90	3.86		
	For CC Drain		1	118.00	1.00	0.90	106.20		
							134.06	259.70	**34816.00**
	Basic Rate	245.00							
	Area Weightage @ 6%	14.70							
	Total	**259.70**							
	For Main Tank Above 1.5 Mtrs Depth Add 25% Extra		1	4.00	4.00	1.10	**17.60**	324.63	**5713.00**
	Basic Rate	306.25							
	Area Weightage @ 6%	18.38							
	Total	**324.63**							
2	KSRB 2.8 : Providing and filling in foundation with granite / trap broken metal 100mm, and down size, with approved sand including had packing, ramming, watering, including cost of all materials and labour with all lead and lift, complete as per specifications. Specification. No. KBS, **Page No. 6 / Item No. 2.15 / PWD SR 2014-15**	Cum							
	Main Tank		1	3.90	3.90	0.20	**3.04**		
							3.04	1926.02	**5859.00**
	Basic Rate	1817.00							
	Area Weightage @ 6%	109.02							
	Total	**1926.02**							
3	KSRB 4-1.3 : Providing and laying in position plain cement concrete of **mix 1:4:8 with OPC cement @ 180 kgs with 40mm** and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregares @ 0.57 cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2. **No. 12/ Item No. 4.3/ PWD SR 2014-15**	Cum							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Main Tank		1	3.90	3.90	0.15	2.28		
	Flush Lock & Bed Filter tank		1	2.60	1.65	0.15	0.64		
	For CC Drain		1	118.00	1.00	0.15	17.70		
							20.63	4757.28	**98119.00**
	Basic Rate	4488.00							
	Area Weightage @ 6%	269.28							
	Total	**4757.28**							
4	KSRB 6-5.4 : Providing and constructing burnt brick masonry with approved quality of modular bricks of standard size of **class designation 50 (table moulded) with cement mortar 1:4 for basement and superstructure** including cost of materials, labour charges, scaffolding, curing complete as per specifications. Specification No. KBS 6.2 **Page No. 28 / Item No. 6.18 / PWD SR 2014-15**	Cum							
	Tank		2x1	3.90	0.23	1.95	3.50		
			2x1	3.44	0.23	1.95	3.09		
	Flush Lock & Bed Filter tank		2x1	2.30	0.23	0.90	0.95		
			3x1	0.90	0.23	0.90	0.56		
							8.10	6597.44	**53407.00**
	Basic Rate	6224.00							
	Area Weightage @ 6%	373.44							
	Total	**6597.44**							
5	KSRB 4-6.2 : Providing and removing centering, shuttering, strutting, propping etc., and **removal of form work for flat surface such as roofs, landings, balconies and likes, thickness upto 200 mm** including cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 **Page No. 15 / Item No. 4.18 / PWD SR 2014-15**	Sqm							
	Main Tank		1	3.44	3.44		11.83		
	Filter Tank		1	1.90	0.90		1.71		
	CC Drain		4	118.00		0.60	283.20		
							296.74	308.46	**91534.00**
	Basic Rate	291.00							
	Area Weightage @ 6%	17.46							
	Total	**308.46**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
6	KSRB 4.2.2 : Providing and laying in position **reinforced cement concrete of design mix M20 with OPC cement @ 320 kgs, with 20mm and down size graded granite metal**, coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum with superplastisiser @ 3lts confirming to IS 9103-1999 reaffirmed-2008 machine mixed, concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, walls (any thickness) including attached plasters, column, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc, including cost of all materials, labour, HOM of machinery, curing, complete as per specifications. Specification No. KBS 4.1,4.6, **No. 13/ Item No. 4.11/ PWD SR 2014-15**	Cum							
	Raft		1	3.90	3.90	0.15	2.28		
	Roof Slab		1	3.90	3.90	0.15	2.28		
	Flush and Filter Tank Roof Slab		1	2.30	1.35	0.15	0.47		
	CC Drain Bottom		1	118.00	0.90	0.15	15.93		
			2	118.00	0.15	0.60	21.24		
							42.20		
	Deduct for openings		1x3	0.60	0.60	0.15	-0.16		
							42.04	5952.96	**250243.00**
	Basic Rate	5616.00	✓				✓	✓	✓
	Area Weightage @ 6%	336.96	✓						
	Total	**5952.96**	✓						
7	KSRB 4.9.1: **Providing mild steel reinforcement for R.C.C work** including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications.Specification No. KBS 4.6.3 **Page No. 17 / Item No. 4.45 / PWD SR 2014-15**	Qtl							
	120 Kg / Cum		0.90	42.04			**37.83**	7828.10	**296161.00**
	Basic Rate	7385.00	✓				✓	✓	✓
	Area Weightage @ 6%	443.10	✓						
	Total	**7828.10**	✓						
8	KSRB 15.8.3 : Providing and fixing plaster mesh 200mm wide manufactured out of hot dipped galvanished iron of nominal thickness 0.35mm with a zinc coating of 120gms per sqm width, along route of walls chipped for services, junction between and brick walls including cost materials, labour, for fixing complete as per specifications. (length of mesh only be measured for payment.) **Page No. 111 / Item No. 15.36 / PWD SR 2014-15**	m							
	Length 2x(1.85/0.20) = 18.5 Say 19 Nos		1x19	3.44			65.36		

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Width 2x(1.85/0.20) = 18.5 Say 19 Nos		1x19	3.44			65.36		
							130.72	47.70	**6235.00**
	Basic Rate	45.00							
	Area Weightage @ 6%	2.70							
	Total	**47.70**							
9	KSRB 15.3.4 Providing 15m thick cement plaster in single coat with cement mortar 1:3,tobrick masonry including rounding off corners wherever reuired smooth rendering, Providing and removing scaffolding, including cost of materials, labour. Curing complete as per specifications. **Page No. 109 / Item No. 15.12 / PWD SR 2014-15**	Sqm							
	Main Tank Inside wall		1x2	3.44		1.95	13.42		
			1x2	3.44		1.95	13.42		
	Filter Tank		1x2	0.90	0.90		1.62		
			1x2	0.90	0.90		1.62		
	Out Side Plastering for Filter Tank		1x2	2.30		0.90	4.14		
			1x2	1.35		0.90	2.43		
							36.64	196.10	**7185.00**
	Basic Rate	185.00							
	Area Weightage @ 6%	11.10							
	Total	**196.10**							
10	KSRB 15.4.6: Extra for providing and mixing water proofing compound in cement plaster work at one kg per bag or in the proportion recommended by the manufactures, for cement mortar 1:3, 20mm thick cost of materials complete as per specifications. **Page No. 110/ Item No. 15.28 / PWD SR 2014-15**	Sqm							
			Qty Vide Item No. 8				**36.64**	13.78	**505.00**
	Basic Rate	13.00							
	Area Weightage @ 6%	0.78							
	Total	**13.78**							
11	KSRB 15-3.10 : Providing 20mm thick cement plaster in single coat with cement mortar 1:3, to stone masonry & concrete surface including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. **Page No. 110 / Item No. 15.18 / PWD SR 2014-15**	Sqm							
	Main Tank Top		1	3.90	3.90		15.21		
	Filter Tank Top		1	2.30	1.35		3.11		
							18.32	249.10	**4562.00**
	Basic Rate	235.00							
	Area Weightage @ 6%	14.10							
	Total	**249.10**							
12	0750 - Supply and Providing Aggregate 40 mm and below PWD SR 2014-15 (P.II / I. 30)	Cum							
			1	0.90	0.90	0.20	**0.16**	800.00	**130.00**
13	0749 - Supply and Providing Aggregate 20 mm and below PWD SR 2014-15 (P. II / I. 33)	Cum							
			1	0.90	0.90	0.20	**0.16**	1000.00	**162.00**

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
14	0731 - Supply and Providing Sand PWD SR 2014-15 (P.II / I. 56)	Cum	1	0.90	0.90	0.20	**0.16**	1450.00	**235.00**
15	Providing PVC Rain Water Pipes and Fittings ISI Standards 4" Single socket Pipe 110 mm dia PWD SR P. XXXVII PWD SR 2014-15	M	1	100.00			**100.00**	867.00	**86700.00**
16	Providing PVC Rain Water Pipes Specials PWD SR 2014-15 P. XXXI	No							
	Plain Bend	No	1x13				**13**	161.00	**2093.00**
	Plain Tec	No	1x8				**8**	343.00	**2744.00**
17	Relevant Plumbing accessories for inlet and outlet with out FFL including Filter etc complete	No.	1				**1**	9000.00	**9000.00**
18	1HP Submersible centrifugal force pump of approved make with all necessary fittings including wiring switch board, starter etc., and Electronic Automatic Equipment (Programmable Logic Control)	LRQ	1				**1**	18000.00	**18000.00**
19	Square Tank Cover "ISI" marked 24'x24x pf 100kg in weight Page No. XXXI)	L/S	1x3				**3**	5009.00	**15027.00**
20	Total								**988430.00**
21	Third Party Inspection Charges 1%								**9884.00**
22	Miscesallaneous Charges								**1686.00**
								Total	**1000000.00**

Administrative approval for Rs. 10.00L Ten lakhs only recorded under P-0541 registered at SL No. 28 subject to conditions contained therein. Dt. 11/02/15 AE/JE EE (STP. Div.)

Technical Sanction for Rs. 10.00L Ten lakhs only Registered at SL No. 61 Dt. 11/02/15 subject to conditions contained therein. No: 362 Dt. 11/02/15 AE/JE EE (STP.Div.)

976776.8 9767.76 13455.43

(Rupees Ten Lakhs Only)

CERTIFICATE:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per PWD SR of 2014-15.
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Assistant Engineer

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidyaranayapura Sub Division

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division